



## Gulf of Mexico Harmful Algal Bloom Bulletin

7 April 2005

National Ocean Service

National Environmental Satellite, Data, and Information Service

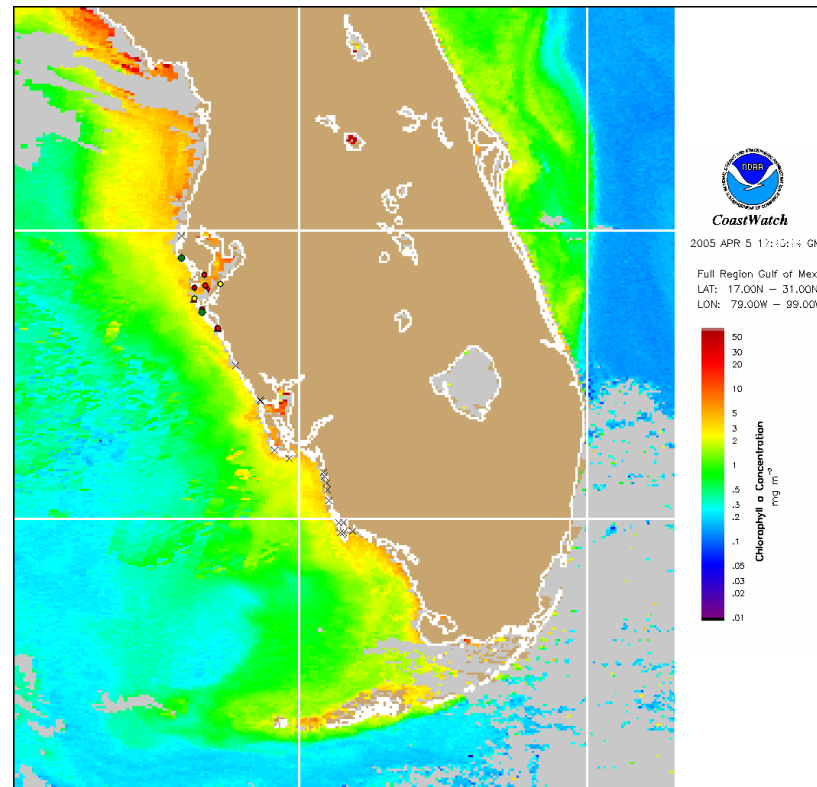
Last bulletin: April 4, 2005

**Conditions:** A harmful algal bloom has been identified off of Manatee and Sarasota Counties. Impacts at Manatee County are expected to be very low through Saturday, with no impacts expected on Sunday and Monday. Impacts at Sarasota County are expected to be low through tomorrow, and very low Saturday through Monday.

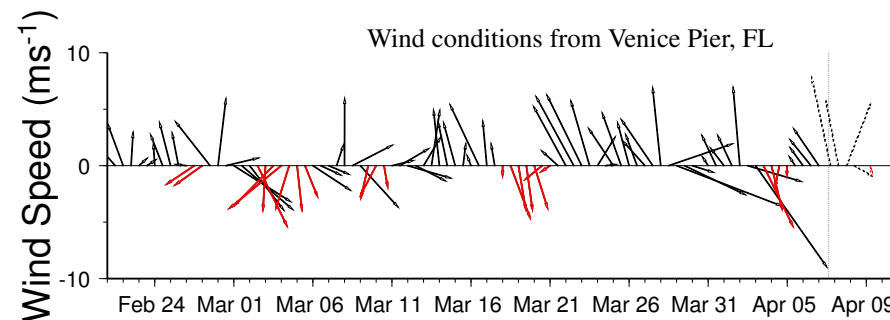
**Analysis:** The bloom continues to weaken. The only recent *Karenia brevis* samples above background levels were from Manatee and Sarasota Counties. Imagery indicates chlorophyll levels  $>5 \mu\text{g/L}$  west of Charlotte Harbor at  $26^{\circ}42'\text{N}$ ,  $82^{\circ}20'\text{W}$ . Little movement of the bloom is expected, and intensification of the bloom is unlikely.

**Keys:** Imagery indicates chlorophyll levels  $>4 \mu\text{g/L}$  northeast of the Keys and southwest of Cape Sable at  $24^{\circ}48'\text{N}$ ,  $81^{\circ}14'\text{W}$ . No recent samples from this area are available. Sampling is recommended.

Bronder, Stolz, Keller



Chlorophyll concentration from satellite with possible HAB areas shown by red polygon(s). Cell concentration sampling data from March 23, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

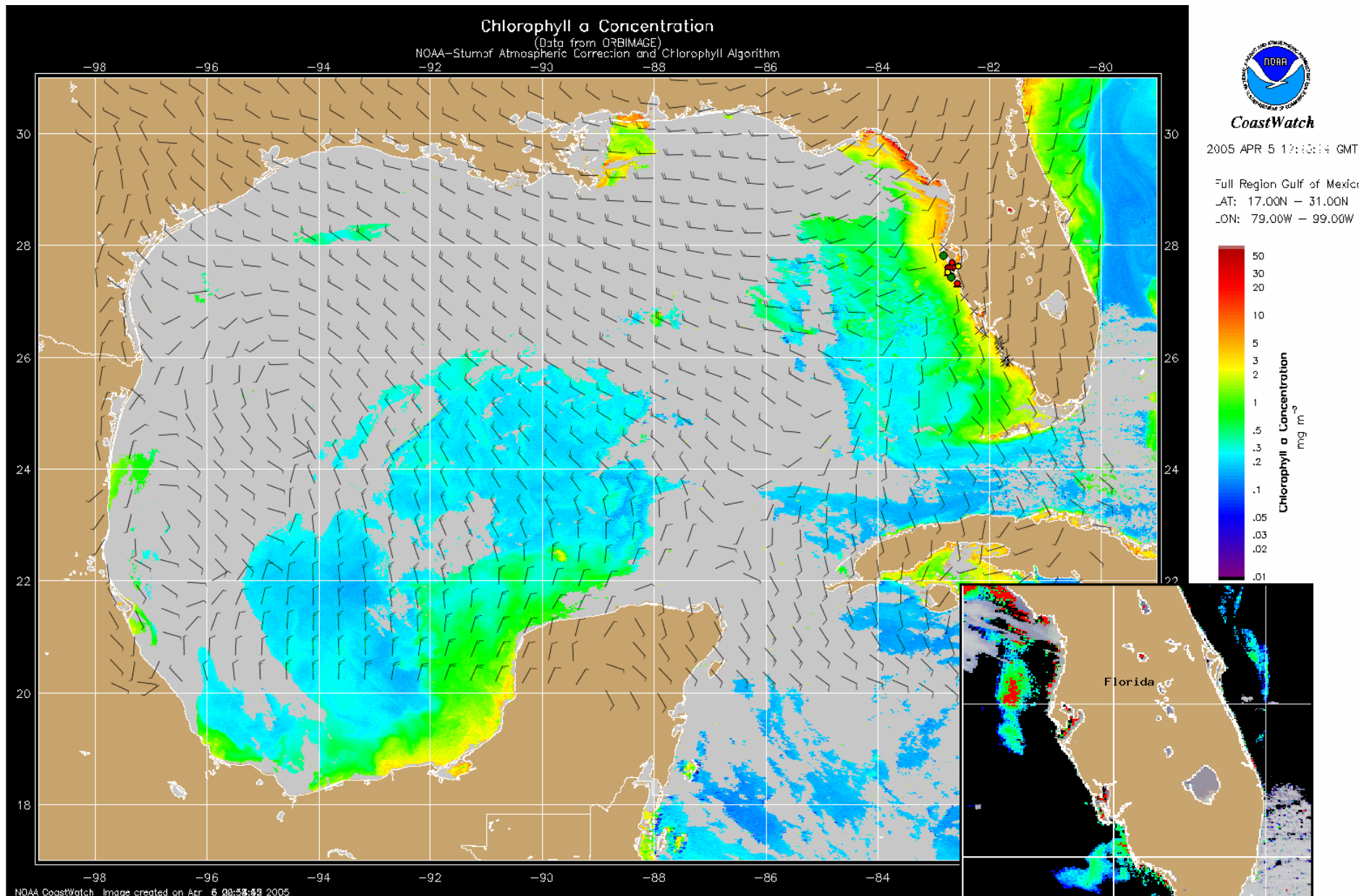


Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

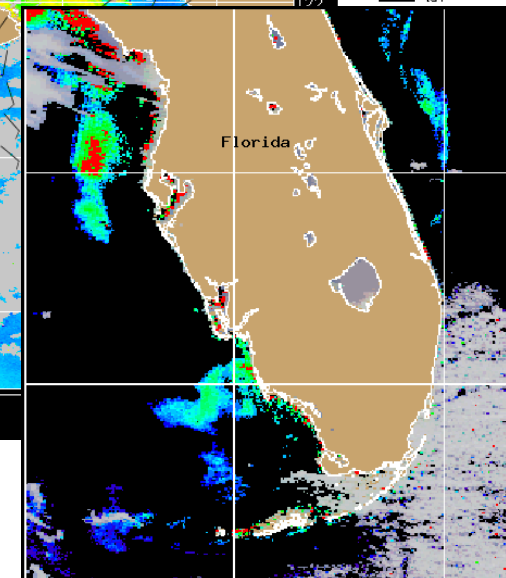
SW Florida: Winds will be southeast (25 kts, 13 m/s) becoming southwest today, west (15 kts, 8 m/s) tomorrow, northwest (10 kts, 5 m/s) Saturday, east (10 kts, 5 m/s) Sunday, and southeast (10 kts, 5 m/s) Monday.

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4. Image products may be published in newspapers. Any other publishing arrangements must receive OrbImage approval via the CoastWatch Program.



Chlorophyll concentration from satellite and forecast winds for April 8, 2005 06Z with cell concentration sampling data from March 23, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Blooms shown in red (see p. 1 analysis and image for interpretation)